

Data Converter Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/D9F1332D4CD4EN.html>

Date: October 2023

Pages: 146

Price: US\$ 2,499.00 (Single User License)

ID: D9F1332D4CD4EN

Abstracts

Market Overview:

The global data converter market size reached US\$ 5.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.0 Billion by 2028, exhibiting a growth rate (CAGR) of 5.8% during 2023-2028.

A data converter refers to an electronic circuit that converts analog data to digital formats or vice versa. The interface unit or device that converts the analog signal to a digital signal is known as an analog to digital converter. On the other hand, the unit that converts the digital signal to analog is called a digital to analog converter. For instance, computers require analog-to-digital data converters to convert the signals into a readable format. Similarly, modems turn digital signals to analog for communications through telephone lines. Owing to this, data converters find extensive applications across various industries, including communications, automotive, medical and consumer electronics.

Rapid digitalization in various industrial sectors and the increasing adoption of technologically advanced data acquisition systems are among the key factors driving the growth of the market. Furthermore, widespread adoption of data converters by aerospace and defense sectors is also providing a boost to the market growth. These devices are used in electronic warfare and communication systems, weapons and defense vehicles for conversion and transmission of signals. Additionally, data converters are being increasingly integrated with smart devices, such as smartphones, laptops and tablets, for video calling, network signal processing, improving touch sensitivity and image processing. The evolution of wireless communication networks, such as 4G, 5G and long-term evolution (LTE), has further enhanced the demand for

data converters for optical communication devices. This, along with the integration of the Internet of Things (IoT) with connected devices, is expected to contribute to the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global data converter market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, sampling rate and application.

Breakup by Type:

Analog-to-Digital Converters

Digital-to-Analog Converters

Breakup by Sampling Rate:

High-Speed Data Converters

General-Purpose Data Converters

Breakup by Application:

Communications

Automotive

Consumer Electronics

Industrial Process Control and Automation

Medical

Testing and Measurement

Others

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Analog Devices Inc., Asahi Kasei Microdevices Corporation, Datal Inc. (Murata Manufacturing), Fujitsu Ltd., IQ-Analog Corporation, Maxim Integrated, Microchip Technology Inc., NXP Semiconductors N.V., ON Semiconductor, Renesas Electronics Corporation, STMicroelectronics, Synopsys Inc., Texas Instruments Incorporated, etc.

Key Questions Answered in This Report:

How has the global data converter market performed so far and how will it perform in the coming years?

What are the key regional markets?

What has been the impact of COVID-19 on the global data converter market?

What is the breakup of the market based on the type?

What is the breakup of the market based on the sampling rate?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global data converter market and who are the key players?

What is the degree of competition in the industry?

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